

Attorney Docket No. OKUDP0176US

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**  
(DO/EO/US)

In re national phase of:

Applicant(s): Toshitaka SHIMAMOTO et al.  
 International Application No.: PCT/JP2005/020927  
 International Filing Date: 15 November 2005  
 Priority Date Claimed: 22 November 2004  
 Title of Invention: NITRIDE-BASED SEMICONDUCTOR DEVICE AND METHOD FOR FABRICATING THE SAME

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop PCT  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

Sir:

1. Pursuant to 37 C.F.R. 1.97 and 1.98, and in compliance with 37 C.F.R. 1.56, the Office's attention is directed to the patents, pending applications, publications and other information listed on the attached PTO-1449. A copy of each listed document is enclosed except for: (a) pending applications or (b) those previously cited or submitted to the Office in the following application(s) upon which this application relies for an earlier filing date under 35 U.S.C. 120:

Serial No.: \_\_\_\_\_  
 Filing Date: \_\_\_\_\_

Regarding any document, publication or other information for which a date is not given on the attached PTO-1449, Applicant(s) believe(s) the same may qualify as "prior" art to this application and should be treated accordingly, although Applicant(s) reserve(s) the right to contest the prior art status of any document, publication or information, should issue arise.

2. Regarding each listed document that is not in the English language, an English-language translation accompanies this Statement as indicated on the attached PTO-1449 or a concise explanation of the relevance of the document is set forth in the following document(s):

- (a) X Copy of each English language version of a search report indicating the degree of relevance found by the foreign office of each document being submitted from the search report.
- (b)      Attachment entitled "Concise Explanation of Relevance of Non-English Language Documents".

3. Pursuant to 37 C.F.R. 1.97(b) this Statement is being filed (one must be checked):

- (a) X Within 3 months of the filing date, date of entry into the National Stage, or filing date of CPA.
- (b)      Before the mailing date of a first Office Action on the merits. If this Statement is not filed before the mailing date of a first Office Action on the merits, the required certification is given below or, in the absence thereof, the Office is authorized to charge the required fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 18-0988 for consideration of this Statement.
- (c)      Before the mailing date of a first Office Action on the merits after a first or second submission after final rejection under 37 C.F.R. 1.129(a).

- (d) \_\_\_\_ After the period set forth in 37 C.F.R. 1.97(b) but before the mailing date of either a final action or a notice of allowance.
- (1) \_\_\_\_ The required certification is given below, or
- (2) \_\_\_\_ Enclosed is a check covering the fee set forth in 37 C.F.R. 1.17(p) for consideration of this Statement, or
- (3) \_\_\_\_ Charge the fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 18-0988
- (e) \_\_\_\_ After the mailing date of either a final action or a notice of allowance, but before payment of the issue fee. Petition hereby is made for consideration of this Statement and the required certification is indicated below.
- (1) \_\_\_\_ Enclosed is a check covering the fee set forth in 37 C.F.R. 1.17(p), or
- (2) \_\_\_\_ Charge the fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 18-0988.

4. Certification (if applicable)

- (a) \_\_\_\_ The undersigned hereby certifies that each item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than 3 months prior to the filing of this Statement.
- (b) \_\_\_\_ The undersigned hereby certifies that no item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the undersigned's knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. 1.56(c) more than 3 months prior to the filing of this Statement.

5. The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 18-0988.

Respectfully Submitted,

RENNER, OTTO, BOISSELLE & SKLAR, LLP

By /Mark D. Saralino/  
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**CERTIFICATE OF MAILING, FACSIMILE OR ELECTRONIC TRANSMISSION**

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is  
\_\_\_\_ being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Commissioner for Patents address below.  
X being transmitted via the USPTO Electronic Filing System.

/Mark D. Saralino/  
Mark D. Saralino

July 31, 2006  
Date

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|--|---|----------------------------------|
| <b>Form PTO-1449 (Modified)</b><br><br><b>LIST OF PATENTS AND PUBLICATIONS<br/>FOR APPLICANT'S<br/>INFORMATION DISCLOSURE STATEMENT</b><br><br>(Use several sheets if necessary) | <b>Atty Docket No.</b><br>OKUDP0176US           | <b>Serial No.</b><br>Unknown     |
|  | <b>Applicant:</b><br>Toshitaka SHIMAMOTO et al. |                                  |
|  | <b>Filing Date</b><br>July 31, 2006             | <b>Group</b><br>Not Yet Assigned |

## U.S. PATENT DOCUMENTS

| Examiner Initial | Document Number                              | Date MM/YYYY  | Name             | Class | Sub-class | Filing Date if Appropriate |
|------------------|--|---------------|------------------|-------|-----------|----------------------------|
| /B.F./           | 2003/0141512 (corresponds to JP 2003-234505) | July 2003     | Bruderl et al.   |       |           |                            |
| /B.F./           | 2003/0143771 (corresponds to JP 2002-009004) | July 2003     | Kidoguchi et al. |       |           |                            |
| /B.F./           | 2001-0003019 (corresponds JP 2001-158698)    | June 2001     | Morita           |       |           |                            |
| /B.F./           | 6,252,261 (corresponds to JP 2003-300800)    | June 2001     | Usui et al.      |       |           |                            |
| /B.F./           | 6,836,498 (corresponds to JP 2002-076518)    | December 2004 | Takeya et al.    |       |           |                            |

## FOREIGN PATENT DOCUMENTS

| Examiner Initial | Document Number | Date MM/YYYY  | Country | Class | Sub-class | Translation |
|------------------|-----------------|---------------|---------|-------|-----------|-------------|
|                  |                 |               |         |       |           | Yes No      |
| /B.F./           | 2003-234505     | August 2003   | JP      |       |           | Abstract    |
| /B.F./           | 2002-009004     | January 2002  | JP      |       |           | Abstract    |
| /B.F./           | 2001-158698     | June 2001     | JP      |       |           | Abstract    |
| /B.F./           | 2003-300800     | October 2003  | JP      |       |           | Abstract    |
| /B.F./           | 2002-076518     | March 2002    | JP      |       |           | Abstract    |
| /B.F./           | 2003-086905     | March 2003    | JP      |       |           | Abstract    |
| /B.F./           | 2003-158295     | May 2003      | JP      |       |           | Abstract    |
| /B.F./           | 2001-308464     | November 2001 | JP      |       |           | Abstract    |
| /B.F./           | 2002-237656     | August 2002   | JP      |       |           | Abstract    |

## OTHER ART

| Examiner Initial | Author, Title, Date, Pertinent Pages, etc.  |
|------------------|---|
| /B.F./           | International Search Report for corresponding Application No. PCT/JP2005/020927 mailed January 26, 2006.  |
| /B.F./           | Nagahama et al.; "High-Power and Long-Lifetime InGaN Multi-Quantum-Well Laser Diodes Grown on Low-Dislocation-Density GaN Substrates", Japanese Journal of Applied Physics Vol. 39, pages L647-650, 2000. (Cited in [0013] on page 6 of the description). |
| /B.F./           | International Searching Authority's Written Opinion with partial English translation.   |

|          |               |                 |            |
|----------|---------------|-----------------|------------|
| EXAMINER | /Brandon Fox/ | DATE CONSIDERED | 01/29/2010 |
|----------|---------------|-----------------|------------|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement PTO-1449 (Modified)

The identification of any reference is not intended to be, and should not be understood as being, an admission that such publication, in fact, constitutes "prior art" within the meaning of applicable law since, for example, a given reference may have a later effective date than first seems apparent or the reference may have an effective date which can be antedated. The "prior art" status of any reference is a matter to be resolved during prosecution.